still be used as a general term for all the forms to which the name has been applied, as the term *Zoophyte* was formerly used for such different beings as the Hydrozoa, the Actinozoa, and the Polyzoa.

EXPLANATION OF PLATE X.

Callograptus radicans, Hopk., natural size. Photo-lithographed from a specimen collected by the author in the Arenig rocks, Ramsey Island, St. David's, South Wales.

XXXVI.—The Mollusca of Europe compared with those of Eastern North America. By J. Gwyn Jeffreys, F.R.S.*

After mentioning that he had dredged last autumn on the eoast of New England in a steamer provided by the Government of the United States, and that he had inspected all the principal collections of Mollusca made in Eastern North America, the author compared the Mollusca of Europe with those of Massachusetts. He estimated the former to contain about 1000 species (viz. 200 land and freshwater, and 800 marine), and the latter to contain about 400 species (viz. 110 land and freshwater, and 290 marine); and he took Mr. Binney's edition of the late Professor Gould's 'Report on the Invertebrata of Massachusetts,' published in 1870, as the standard of comparison. That work gives 401 species, of which Mr. Jeffreys considered 41 to be varieties and the young of other species, leaving 360 apparently distinct species. About 40 species may be added to this number in consequence of the recent researches of Professor Verrill and Mr. Whiteaves on the coast of New England and in the Gulf of St. Lawrence. Mr. Jeffreys identified 173 out of the 360 Massachusetts species as European, viz. land and freshwater 39 (out of 110), and marine 134 (out of 250), the proportion in the former case being 28 per cent., and in the latter nearly 54 per cent.; and he produced a tabulated list of the species in support of his statement. He proposed to account for the distribution of the North-American Mollusca thus identified, by showing that the land and freshwater species had probably migrated from Europe to Canada through Northern Asia, and that most of the marine species must have been transported from the Arctic seas by Davis's-Strait current southwards to Cape Cod, and the remainder from the Mediterranean and western coasts of the Atlantic by the Gulf-stream in a northerly direction. He renewed his objection to the term "representative species."

^{*} An abstract of a communication made by the author to the Brighton Meeting of the British Association, and now published at his request.

The author concluded by expressing his gratitude for the kind hospitality and attention which he received from naturalists during his visit to North America last year.

Mollusca of Eastern North America, according to Binney's edition of Gould's 'Invertebrata of Massachusetts.'

	occition if Goding 5 1.			J 1.1 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
29	Teredo navalis, Linné Norvagica, Spengler	N N	E	Wood's Hole, Mass. (J. G. J.).
	—— megotara, Hanley —— Thompsonii, Tryon	N S	E	
32	—— dilatata, Stimpson	N N	10	T. megotara, variety.
	—— chlorotica, Gould (1870). Xylotrya fimbriata, Jeffreys	S	Е	T. pedicellata, Quatrefages (1849), var.
36	Pholas costata, L — truncata, Say	s s		
39	Zirfæa crispata, L	N	E	Genus Pholas.
	Solen ensis, L	N S	E	
44	— divisus, Sp	S N		G. Siliana
47	—— costata, Say	N	• • • • • • •	G. Siliqua. G. Siliqua.
48	Solemya velum, Say (1822) borealis, Totten (1834)	N N	E	S. togata, young. S. togata, Poli (1791).
	Panopæa arctica, Lamarek			
53	(1818)	N N	E	Saxicava Norvegica, sp. (1793). G. Cyrtodaria.
	Mya arenaria, L truncata, L	N N	E	
60	Corbula contracta, Say	s		
	Neæra pellucida, St Pandora trilincata, Say	N N	E	
64	Lyonsia hyalina, Conrad	N		Allied to L. Norvegiea.
66	— arenosa, Moller Anatina papyracea, Say	N N	E	
68	Cochlodesma Leanum, Cour	N		Allied to Thracia prætenuis, which is European.
	Thracia Conradi, Couthouy (1838)	N		T. inflata, J. Sowerby (1845).
71	— myopsis (<i>Beek</i>), <i>Möll</i> . (1842)	N	E	T. truncata, Brown (1827).
72	truncata, Mighels & Adams (1842)	N	E	Not T. truncata, Br. T. sep-
73	Mactra solidissima, Ch	N		tentrionalis, Jeffr. MS. Lovén received a single valve
75	ovalis, Gould	N		from Finmark. M. solidissima, var.
77		N		Allied to M. subtruneata, which
	Cumingia tellinoides, Conr	s		is European.
	Ceronia arctata, Conr	N N		Mesodesma deauratum, var. G. Mesodesma.

1	//		1	
Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
83	Kellia planulata, St	N		G. Lasæa.
	— suborbicularis, Montagu.	N	E	G G
	Turtonia minuta, Fabricius Montacuta elevata, St	N N	E	G. Cyamium.
87	Saxicava rugosa, Pennant	N	E	Linné instead of Pennant.
	— arctica, L Petricola pholadiformis, Lam.	N N		S. rugosa, var. Valentia, Ireland; a fragment.
	— daetylus, Say	N		P. pholadiformis, var.
93	Macoma fusca, Say (1826)	N	E	Tellina Balthica, L. (1766).
95	— proxima, Gray (1839) Tellina tenta, Say	N S	E	T. calcaria, Ch. (1782).
97	— tenera, Say Lucina filosa, St. (1851)	N		Allied to T. tenuis.
98	Lucina filosa, St. (1851)	N S	Е	L. borealis, L. (1766).
	— dentata, Wood Cryptodon Gouldii, Philippi	8		
	(1845)	N	Е	Axinus flexuosus, Mont., var. (1803).
101	1	N		S. striatinum, Lam. (1818).
$\frac{103}{104}$	— partumeium, Say (1822) — rhomboideum, Say	N N	Е	S. lacustre, Müller (1774). Allied to S. corneum, which is
			******	European.
105	— Vermontanum, <i>Prime</i> (1861)	N	Е	S. pisidioides, Gray (1856). Perhaps introduced into England.
106	—— truncatnm, Linsley	N	*****	S. lacustre, var.
$\frac{107}{107}$	tenue, Prime	N N		S. lacustre, var. Rykholtii.
108		N		S. the astre, var. Hykholitt.
109	Pisidium dubium, Say (1816)	N	E	P. amnicum, Müll. (1774).
	Adamsii, Prime (1851)	N	E	P. fontinale, Draparnaud (1805).
112	— compressum, Prime — æquilaterale, Prime	N N		Allied to P. nitidum, which is European.
113 113	— ferrugineum, Prime — abditum, Haldeman	N		P. pusillum, var. obtusalis.
	(1841)	N	\mathbf{E}	P. pusillum, Gmelin (1788).
$\frac{115}{116}$	(1841)	N N		Possibly some of these North-
110	ventricosum, 1 reme	74		American species may be reduced in number.
117	Astarte castanea, Say	N		Perhaps a variety of A. borea- lis, Ch.
119	—— sulcata, Da Costa	N	E	Including A. undata, Gould = A. Omalii, J. Sow.
121	semisulcata, Leach (1817)	N	E	A. borealis, Ch. (1784), var.
$\frac{123}{124}$	— quadrans, Gould — elliptica, Hanley	N N		A. castanea, var. nana. A. sulcata, var.
-125	—— Banksii, Leach (1817)	N	E	A.compressa, Mont. (1803), var.
126	— crebricostata, Forbes (1847)	N	E	A. depressa, Br. (1827).
	(**************************************		15	71. acpressa, Dr. (1021).

Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
127	Astarte Portlandica, Mighels .	N		A. compressa, var.
	Gouldia mactracea, Linsley	N N		G. Crassatella.
	Cyprina Islandica, L Cytherca convexa, Say	N	ть	G. Venus.
133	Venus mercenaria, L	N		
135	— notata, Say	N N	E	V. mereenaria, var. G. Venus.
137	Gemma gemma, Totten	N	12	V. mercenaria, young.
	— Manhattensis, Prime	S	773	
	Cardium Islandicum, L —— elegantulum (Beck),	N	Е	
	Moll	N	E	
	Liocardium Mortoni, Conr Aphrodita Grænlandica, Ch	N N	E	G. Cardium.
	Cardita borealis, Conr. (1836)	N	E	C. suleata, Bruguière (1792).
				var.
	Arca pexata, Say transversa, Say	S N		A. pexata, var.
149	Nucula tenuis, Mont	N	E	A. peaula, var.
150	proxima, Say	N		AT (
152	—— expansa, Reeve	N N	E	N. tenuis, var.
154	Yoldia limatula, Say (1831)	N	E	Y. arctica, Sars. G. Leda.
	obesa, St	N		Allied to Leda lucida, which
156	siligna Reeve (1855)	N	E	is European. L. aretica, Gray (1819).
157	—— siliqua, Reeve (1855) —— thraciæformis, Storer	N	E	G. Leda.
159	—— sapotilla. <i>Gould</i> (1841).	N	E	L. hyperborea, Lov. (1846).
	—— myalis, Couth Leda tenuisulcata, Couth.	N		G. Leda.
ì	(1838)	N	E	L. pernula, Müll. (1770), var.
163	— Jacksonii, Gould — minuta, Fabr.	N N	E	L. pernula, var. Müll, instead of Fabr.
	caudata, Donovan	N		L. minuta, var.
167	Unio complanatus, Solunder	N		
$\frac{169}{170}$	—— nasutus, Say —— radiatus, Gm.	N S		
172	— cariosus, Say	s		
173	— cariosus, Say ochraceus, Say	S		Perhaps U. cariosus, var.
174	Margaritana arcuata, Barnes (1823)	N	E	Unio margaritifer, L. (1766).
176	— undulata, Say	S		G. Unio.
177	marginata, Gould	S		G. Unio.
178	Anodon fluviatilis, Lea	S		Dillwyn (1817) instead of Lea. Anodonta eygnea, L. (1766).
180	—— implicata, Say	N		G. Anodonta. A. cygnea, var.
182	—— undulata, Say	S N		G. Anodonta.
186	Modiola modiolus, L	N	E	G. Mytilus.
188	—— plicatula, Lam	N		G. Mytilus.
	Modiolaria nigra, Gray — discors, L	N N	E	
102	Choose, Million			

Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
109	Modiolaria corrugata, St	N	E	
	Crenella glandula, Tott	N	12	
	— pectinula, Gould (1841).	N	E	C fal. Dala (1790)
	Pecten tenuicostatus, Migh. &	7.4	712	C. faba, Fabr. (1780).
100	Ad	N		
198	—— Islandicus, Müll	N	Е	
199	irradians, Lam	N	15	
200	fuscus, Linsl	N		P. irradians, young.
202	Ostrea Virginiana, Lister	N		1. trractans, young.
203	Ostrea Virginiana, Lister —— borealis, Lam.	s		O. Virginiana, var.
	Anomia ephippium, L	N	E	o. r ingentunce, var.
	—— aculeata, <i>Gm.</i>	N		A. ephippium, var.
	electrica, <i>L</i>	N		A. ephippium, var.
206	squamula, <i>L</i>	N		A. ephippium, young.
208	Terebratulina septentrionalis,			
	Couth. (1839)	N	E	Terebratula caput-serpentis, L.
210	m	2.7		(1764), var.
	Rhynchonella psittacea, Gm .	N	E	
211	Waldheimia cranium, Gm	N	E	Müll., instead of Gm. G. Te-
019	DI:11:	N		rebratula.
215	Philine sinuata, St	N		Allied to P. nitida, which is
919	guaduata C Wasd	N	Е	European.
	—— quadrata, S. Wood —— lineolata, Couth. (1839).	N	E	D Lina Pr. (1997)
	Scaphander puncto-striatus,	1,	12	P. lima, Br. (1827).
-10	Migh. & Ad. (1842)	N	E	S. librarius, Lov. (1846).
210	Diaphana hiemalis, Couth.	1	1	D. 1107 117 113, 1101. (1010).
	(1839)	N	E	Utriculus globosus, Lov. (1846).
216		N	E	Utriculus hyalinus, Turt.
				(1834).
217	Utriculus Gouldii, Couth.			
	(1839)	N	E	U. turritus, Möll. (1842).
218	— pertenuis, Migh. — canaliculatus, Say	N		U. Gouldii, young.
218	— canaliculatus, Say	S	~	
	Cylichna alba, Br	N	E	7 7
221		N	E	Bulla utriculus, Brocchi (1814).
222	Bulla incineta, Migh	N		
222	— solitaria, Say	S		
220	occulta, Migh. & Ad.	N	E	Chiliahna utniuta D. (1007)
99	(1842) Tornatella puncto-striata, Ad.		E	Cylichna striata, Br. (1827). Perhaps Actæon pusillus. G.
	101 hatena philicio-sti lata, 246.	1 2		Actaon.
220	Polycera Lessonii, D' Orbigny.	N	E	zicteon.
	Doris bilamellata, L	N	E	
	— tenella, Agassiz			Perhaps D. inconspicua, which
				is European.
229	—— pallida, Ag. (1870)	N	E	D. aspera, Alder & Hancock
1				(1842).
230	— diademata, Ag. (1870)	N	E	D. tuberculata, Cuvier (1802).
23	— diademata, Ag. (1870) — planulata, St. (1853) 2 — grisea, St	N	E	D. repanda, A. & H. (1842).
23:	grisea, St	N		"Very closely allied to D. in-
				conspicua."
-				

		North or South of Cape Cod.		
		္မည္		
		20 0	-	
		F 05	European	
	Name of Species.	ವರ	ğ.	Synonyms and Remarks.
Page.		T 7	10	
a		2	E	
-		-		
233	Ancula sulphurea, St	N		"Very like to Ancula cristata,"
	inous surphurou, ser initia.			which is European.
921	Dandranatus arhanasans			which is it in opean.
-04	Dendronotus arborescens,	NT.	172	
000	Müll.	N N	E	
	Doto coronata, Gm		E	
	Æolis papillosa, L	N	E	
240	salmonacea, De Kay			
	(1843)	N		Eolis bodoensis, Möll. (1842).
241	— Bostoniensis, Couth	N		"Approaching closely E. coro-
				nata of Forbes," which is
				European.
210	rufibranchialis, Johnston.	N	E	T
973	pilata Gould	N	1,	
915	stellate St	Ň		
0.10	Stellata, St	N		
240	— pilata, Gould — stellata, St. — purpurea, St. — picta, A. & H.		73	
246	picta, A. 3. H	N	E	
1 1	(liversa Court	N		
248	—— despecta, Johnst gymnota, De Kay	N	E	
249	— gymnota, De Kay	N		"Nearly allied to E. concinna,"
				which is European.
+250	Calliopæa (?) fuscata, Gould	N		
251	Embletonia fuscata, Gould	N		
252	remigata. Gould	N		
253	Hermæa cruciata, Alex. Ag	S		
254	Alderia Harvardiensis, Ag	N		
255	Elysia chlorotica, Ag	N		
256	Placobran hus catulus, Ag	N .		
959	Time poutie gouste Ct	N		
250	Limapontia zonata, St	S		
200	Chiton apiculatus, Say	S	Е	a manainatus not a simemone
209	— cinereus, L	۵	15	C. marginatus, not C. cinereus.
				A single specimen only; ques-
000	1 7	2.	73	tionable.
260	— ruber, Lowe	N	E	
261	— marmoreus, Fabr	N	E	-
+263	albus, Mont	N	E	L., not Mont.
+263	mendicarius, Migh. & Ad.			
	(1842)	N	E	C. Hanleyi (Bean), Thorpe
				(1844).
264	Amicula Emersonii, Couth	N		
	Dentalium dentale, L	N		D. striolatum, var.
	Entalis striolata, St. (1851)	N	E	Dentalium abyssorum, Sars
1				(1858), var.
267	Tectura testudinalis, Müll	N	E	(),
	alveus, Conr	N		T. testudinalis, var.
		Ň	E	z. cooncontanto, rai.
	Lepeta caca, Müll	N	E	
271	Crepidula fornicata, L			C forminata von
272	— plana, Say	N		C. fornicata, var.
273	convexa, Say	N		a contract
274	glauca, Say	N		C. fornicata, var.
	Crucibulum striatum, Say	N	-	S D / H
	Cemoria noachina, L	N	E	G. Puncturella.
277	Ianthina fragilis, Deshayes	N	\mathbf{E}	Lam., not Desh. Specific name
				changed to communis (1822).

		1	1	
Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
	Adeorbis costulata, Moll	N	E	G. Mölleria.
	Margarita cinerea, Couth undulata, Sowerby (1838)	N N	E	G. Trochus. Trochus Grænlandicus, Ch. (1781).
281	— helicina, Fubr	N	E	G. Trochus.
$\begin{vmatrix} 282 \\ 283 \end{vmatrix}$	argentata, Gould (1841) obscura, Couth	N N	E E	Trochus glaucus, Möll. (1842). G. Trochus.
284	- acuminata, Migh, & Ad.,	N		Trochus varicosus, young.
285	varicosa, <i>Miyh. & Ad.</i> (1842)	N	Е	M. clegantissima (Bean), S. Wood (1848). G. Trochus.
286	Trochus occidentalis, Migh. &	N	773	
286	Ad	N N	E E	V. piscinalis, Müll. (1774), var.
288	— pupoidea, Gould Melantho decisa, Say	N N		
292	Amnicola pallida, Haldeman.	N		G. Hydrobia.
293	— limosa, Saygranum, Say	N S		G. Hydrobia, G. Hydrobia,
295	Pomatiopsis lapidaria, Say	S		G. 11garoota.
	Skenea planorbis, Fabr Rissoella? eburnea, St	N N	E	G. Rissoa.
297 298	— sulcosa, Migh Rissoa minuta, Tott. (1834)	N N	E	G. Rissoa. One specimen only. Hydrobia ventrosa, Mont. (1803), var.
$\frac{299}{299}$	—— latior, Migh. & Ad —— aculeus, Gould (1841)	N N	Е	R. striata, J. Adams (1795).
300	—— multilineata, St	N N		R. striata, var.
301	— Mighelsi, St — exarata, St	N		
301	— exarata, St	N N	E	I dinamicata Pohr (1780)
303	Lacuna vineta, Mont. (1803) neritoidea, Gould (1840)	N	E	L. divaricata, Fabr. (1780). L. pallidula, Turt. (1827), var.
304	Littorina rudis, Don tenebrosa, Mont	N N	E	Maton, instead of Don. L. rudis, var.
308	—— litorea, <i>L</i>	N	E	
309	palliata, Say (1822)	N S	Е	L. obtusata, L. (1766), var. = L. limata, Low. (1846).
311	Scalaria Nov-angliae, Couth	N		S. multistriata, var.
312	—— lineata, Say	s s		
314	Grænlandiea, Ch	N	E	
	Cæcum pulchellum, St Vermetus radicula, St	S		
	Turritella erosa, Couth.			// / 1 NEW 41040)
318	(1839) reticulata, <i>Migh</i> . & Ad.	N	E	T. polaris, Möll. (1842).
1	(1842)	N	E	T. lactea, Möll. (1842).
$\begin{vmatrix} 319 \\ 320 \end{vmatrix}$	— acicula, St	N N		
	Bittium nigrum, Tott	S	• • • • • • • • • • • • • • • • • • • •	G. Cerithium.

Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
322	Bittium Greenii, Ad. (1839)	N	E	Cerithiopsistubercularis, Mont.
325	Triforis nigrocinctus, Ad Odostomia producta, Ad	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		(1803).
+325	— fusca. Ad	S		
327	—— deathata St	N		
327	— bisuturalis. Say	N N		
328	— modesta, St. — bisuturalis, Say — trifida, Tott.	\mathbf{s}		O. impressa, var.
329	—— seminuda, <i>Ad.</i>	N S		O. cælata, Cailliand (1865).
331	Turbonilla interrupta, Tott.			
	(1834)	N	Е	Melania rufa, Ph. (1836), var. G. Odostomia.
331	nivea, St	N		Perhaps Turbo lacteus, L. G.
332	Eulima oleacea, Kurtz & St	S		[Odostomia.
555	Mcnestho albula, Möll	TA	•••••	Apparently not this species, which is European.
334	Velntina haliotoidea, Fabr.	37	77	Ť
335	(1780)zonata, Gould (1841)	N N	E	V. lævigata, Pennant (1777). V. undata, Brown (1827).
537	Lamellaria perspicua, L	N	E	, i amanda, 210mm (1021).
	Lunatia heros, Say (1822)	N		Natica catenoides, S. Wood (1848).
341	— triseriata, Say	N N	E	Natica heros, young. Beck, fide Möll. G. Natica.
342	Natica clausa, Broderip & Sow.			
344	(1829) —— pusilla, <i>Say</i>	N S	E	N. affinis, Gm. (1790).
344	Mamma? immaeulata, Tott	N	•••••	G. Natica.
345	Neverita duplicata. Say	S N		G. Natica.
	Eulbus flavus, Gould (1840) Amauropsis heliccides, Johnst.	N	L	Natica Smithii, Brown (1839) = N. aperta, Lov. (1846).
	(1835)	N	E	Natica Islandica, Gm. (1790).
	Pleurotoma bicarinata, Couth.	N N	E	
1 351	Bela turricula, Mont.	N	E	P. declivis, Lov. (1846). G. Pleurotoma.
352	— harpularia, Couth — violacea, Migh. & Ad.	N	E	G. Pleurotoma.
353	violacea, Migh. & Ad. (1842)	N	Е	Defrancia Beckii, Möll. (1842).
354	decussata, Couth. (1841).	N	E	G. Pleurotoma, Pleurotoma Trevelyana, Turt. (1834).
355	— cancellata, Migh. & Ad. (1842)	N	Е	Defrancia Pingelii, Möll.
955			,	(1842). G. Pleurotoma.
399	— pleurotomaria, Couth. (1839)	N	Е	Buceinum pyramidale, Ström
950				(179—). G. Pleurotoma.
357	Columbella avara, Say	S N	\mathbf{E}	C. Holbollii (Beck), Möll.
	(1010)			(1842).

		1		
Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
359 360 362 364	Columbella dissimilis, St — lunata, Say Purpura lapillus Nassa obsoleta, Say — trivittata, Say (1822) — vibex, Say.	N S N N N	E	Subgenus Desmoulea. N. propinqua, J. Sow. (1824).
366 368	Buccinum undatum, L — ciliatum, Fabr	N N	E E	Not that species, but B. undulatum, Möll.
370	— Donovani, Gray (1839). — cinereum, Say	N N		B. glaciale, L (1766). G. Urosa'pinx, allied to Purpura.
371 372	Fusus Islandicus, <i>Gm.</i>	N N		Not that species, but F. curtus, Jeffr. Not Buccinum Sabinii or Fu-
374	— ventricosus, Gray — tornatus, Gould (1840)	N N N	Е	sus Sabini, Gray. F. despectus, L. (1766).
375 377 378	— decemcostatus, Say Trophon clathratus, L — scalariformis, Gould	N	Е	Not that species, but T. trun- catus, Str.
379 380	(1840)	N N S	E	T. clathratus, L. (1766). Doubtful as American.
385 386 387 389	— carica, Gm. Fasciolaria ligata, Migh. & Ad. Ranella caudata, Say — terebralis, Ad. (1841) — Trichotropis borealis, Sow	S N S S S N	E E	G. Cerithium, not Cerithiopsis. C. trilineata, Ph. (1836). Broderip and Sowerby's species.
395	Admete viridula, Fabr	N N N	E E E	V. pellucida, Müll. (1774). G. Zonites. Closely allied to Z. excavatus,
397	—— electrina, Gould (1841).	N	E	butumbilicus much less open. Zonites radiatulus, Alder (1830), var. alba.
399 400 401	— indentata, Say — minuscula, Binney — Binneyana, Morse — milium, Morse	N N S N		
$\frac{402}{403}$	ferrea, Morse	N N N N	E	Zonites fulvus, Müll. (1774). Helix pygmæa, Drap. (1805).
406 407 408	Macrocyclis concava, Say Limax maximus, L — agrestis, L. — campestris, Binney (1841)	N N N	E E E	L. lævis, Müll. (1774).
100	campestris, Dinney (1041)	- 11	13	25, 10000, 11111. (1111).

Page.	Name of Species.	North or South of Cape Cod.	European.	Synonyms and Remarks.
410	Limax flavus, L	N	E	
	Helix alternata, Say	N		
413	— striatella, Anthony	N		
415		N N		
417	—— labyrinthica, Say — hirsuta, Say	N		
418	— monodon, Rackett	N		
420	— monodon, Rackett — palliata, Say — tridentata, Say	N		
422	tridentata, Say	N		
423	—— albolabris, Say	N N		
+425	thyroides, Say	N		
426	—— Sayii, <i>Binn</i>	N	4	
427	? harpa, Say	N	E	Sweden.
420	— pulchella, Müll hortensis, Müll. (1774)	N N	E	H. nemoralis, L. (1766), var.
431	Cionella subcylindrica, L	Ñ	E	Perhaps that species, but de-
				scribed as inhabiting fresh
				water. Cochlicopa lubrica,
433	Puna musaanum I.	N	E	Müll. Linné's species is unascertain-
100	Pupa muscorum, L	11	13	able. P. marginata, Drap.
	— Hoppii, Möll	N		
434	— pentodon, Say	N		
435	— decora, Gould — fallax, Say	N S		
437	—— armifera. Sag	N		
438	—— armifera, Sag	N		
439	— rupicola, Say	N		
439	—— corticaria, Say Vertigo Gouldii, Binn. (1843)	N N	E	V. alpestris, Ald. (1830).
441	— milium, Gould	N	15	7. arpearts, 21d. (1660).
442	— milium, Gould	N	E	V. pygmæa, Drap. (1801).
442	—— ovata, Say (1822)	N	E	V. antivertigo, Drap. (1801).
443	— ventricosa, Morse (1865).	N	E	V. Moulinsiana, Dupuy (1843).
444	simplex, Gould (1840)	N	E	V. edentula, Drap. (1805).
445	Succinea ovalis, Gould (1841).	N	E	S. elegans, Risso (1826).
446	—— avara, <i>Say</i>	N	·····	Allied to S. putris, var. ochra-
447	obligua Sau (1824)	N	Е	s. putris, L. (1766).
448	— obliqua, Say (1824) — Totteniana, Lea	N		S. putris, var.
	Arion fuscus, Müll. (1774)	N	E	Perhaps that species. A. hor-
450	Zanitas incometa Can	N		tensis, Férussac (1819).
453	Zonites inornata, Say	N	•••••	Zonites is masculine; see De Montfort.
454	suppressa, Say	N		2.2073.000
454	— fuliginosa, Griffith	N		
457	Tebennophorus dorsalis, Binn.	N	12	C. M. Jameses
	Alexia myosotis, Drap Carychium exiguum, Say	N	E	G. Melampus.
100	(1822)	N	E	C. minimum, Müll. (1774).

Page.	Name of Species.	North or south of Cape Cod.	European.	Synonyms and Remarks.
467	Melampus bidentatus, Say	N		Specific name preoccupied. M.
471 473 474	Limnæa columella, Say (1817) —— decollata, Migh. —— ampla, Migh.	N N N	E	corneus, Desh. L. peregra, Müll. (1774). L. catascopium, var.
	—— elodes, Say (1821) —— desidiosa, Say	N	E	L. palustris, Müll. (1774). L. truncatula, var.
	— catascopium, Say	S		L. trancataia, var.
480	umbilicata, Ad	N		Allied to L. truncatula.
481	— pallida, Ad	N		L. truncatula, var. elegans.
	— humilis, Say (1822)	N N	E	L. truncatula, Müll. (1774). More nearly allied to P. riva-
	Physa heterostropha, Say	S	•••••	lis, Mat. & Rack. than to P. fontinalis.
	—— ancillaria, <i>Say</i> Bulinus elongatus, <i>Say</i> (1821)		Е	Physa hypnorum, L. (1766).
488	Planorbis trivolvis, Say		11	1 100).
	—— lentus, Say	N		P. trivolvis, var.
491		N		
492	campanulatus, Say	N	773	D .7. 34"11 (1554)
	— hirsutus, Gould (1840) — deflectus, Say		E	P. albus, Müll. (1774). P. albus, var. Draparnaldi.
	exacutus, Say			Allied to P. nitidus.
	— parvus, Say (1817–19)		E	P. glaber, Jeffr. (1828).
498	dilatatus, Gould	N	E	Perhaps introduced into England and naturalized.
	Segmentina armigera, Say			G. Planorbis. Allied to A. lacustris.
	Ancylus parallelus, Hald			Amed to A. tucustris.
	Diacria trispinosa, Lesueur		E	G. Cavolina.
	Psyche globulosa, Rang			
50	Heterofusus balea, Moll	N		G. Spirialis.
	retroversus, Fleming		E	G. Spirialis.
	Clione limacina, Phipps (1773)		E	C. papilionaeea, Pallas (1766).
	Loligopsis pavo, Les	N		
1 510	Ommastrephes sagittatus, Fér. & D'Orb.	N		Lamarck's species. G. Om- matostrephes.
	B Loligo punctata, De Kay			
	Pealei, Les			C . / . / . T . /1500 03
510	Spirula fragilis, St. (1860)	. S		S. australis, Brug. (1789-92).
		1		